



PATENT  
Attorney Docket No.: MDS-030  
(6219/26)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Kaufman *et al.*  
SERIAL NO.: 10/099,881 GROUP NO.: 3737  
FILING DATE: March 15, 2002 EXAMINER: Not yet assigned  
TITLE: Image Processing Using Measures of Similarity

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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TECHNOLOGY CENTER R3700

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**

- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

In addition, Applicants wish to inform the Examiner of the following commonly-owned, co-pending applications:

- 1) U.S. Serial No. 09/841,325, Attorney Docket No. MDS-009CN, filed on 4/24/01, by Modell et al.;
- 2) U.S. Serial No. 09/591,706, Attorney Docket No. MDS-012, filed on 6/9/00, by Nordstrom et al.;
- 3) U.S. Serial No. 09/738,614, Attorney Docket No. MDS-013A, filed on 12/15/00, by Kaufman et al.;
- 4) U.S. Serial No. 10/068,133, Attorney Docket No. MDS-013AC2, filed on 2/5/02, by Kaufman et al.;
- 5) U.S. Serial No. 09/738,147, Attorney Docket No. MDS-013B, filed on 12/15/00, by Kaufman et al.;
- 6) U.S. Serial No. 10/178,772, Attorney Docket No. MDS-014CN, filed on 6/24/02, by Modell et al.;
- 7) U.S. Serial No. 10/122,429, Attorney Docket No. MDS-015CN, filed on 4/12/02, by Nordstrom et al.;
- 8) U.S. Serial No. 09/481,762, Attorney Docket No. MDS-016, filed on 1/11/00, by Modell et al.;
- 9) U.S. Serial No. 09/738,612, Attorney Docket No. MDS-020, filed on 12/15/00, by Costa et al.;
- 10) U.S. Serial No. 10/071,932, Attorney Docket No. MDS-022C1, filed on 2/8/02, by Nordstrom et al.;
- 11) U.S. Serial No. 10/192,820, Attorney Docket No. MDS-028, filed on 7/10/02, by Schomacker et al.;
- 12) U.S. Serial No. 10/273,511, Attorney Docket No. MDS-031, filed on 10/18/02, by Clune et al.;
- 13) U.S. Serial No. 10/192,836, Attorney Docket No. MDS-032, filed on 7/10/02, by Zelenchuk;
- 14) U.S. Serial No. 10/243,535, Attorney Docket No. MDS-033, filed on 9/13/02, by Schomacker et al.;
- 15) U.S. Serial No. 10/295,794, Attorney Docket No. MDS-034, filed on 11/15/02, by Schomacker et al.;
- 16) U.S. Serial No. 10/418,922, Attorney Docket No. MDS-035, filed on 4/18/03, by Flewelling et al.;
- 17) U.S. Serial No. 10/418,902, Attorney Docket No. MDS-035A, filed on 4/18/03, by Jiang et al.;
- 18) U.S. Serial No. \_\_\_\_\_, Attorney Docket No. MDS-035B, filed on 4/18/03, by Jiang;
- 19) U.S. Serial No. 10/418,668, Attorney Docket No. MDS-035D, filed on 4/18/03, by Costa et al.;
- 20) U.S. Serial No. 10/418,975, Attorney Docket No. MDS-035E, filed on 4/18/03, by Jiang et al.;
- 21) U.S. Serial No. 10/418,415, Attorney Docket No. MDS-035F, filed on 4/18/03, by Schomacker et al.;
- 22) U.S. Serial No. 10/419,181, Attorney Docket No. MDS-035G, filed on 4/18/03, by Jiang et al.; and
- 23) U.S. Serial No. 10/418,973, Attorney Docket No. MDS-035H, filed on 4/18/03, by Schomacker et al.

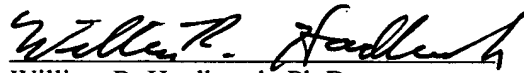
It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

**STATEMENT**

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



William R. Haulbrook, Ph.D.

Attorney for Applicants

Testa, Hurwitz, & Thibault, LLP

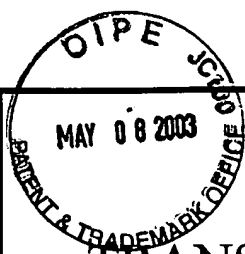
High Street Tower

125 High Street

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Date: May 6, 2003  
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# TRANSMITTAL FORM

Application Serial Number	10/099,881
Filing Date	March 15, 2002
First Named Inventor	Kaufman
Group Art Unit	3737
Examiner Name	Not Yet Assigned
Attorney Docket No.	MDS-030
Patent No.	Not applicable
Issue Date	Not applicable

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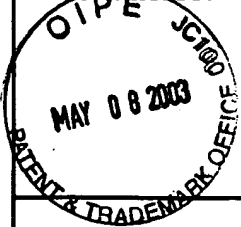
## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form  <input type="checkbox"/> Amendment/Response  <input type="checkbox"/> Supplemental Preliminary After Final Affidavits/declaration(s) Letter to Official Draftsperson including Drawings [Total Sheets]  <input type="checkbox"/> Petition for Extension of Time  <input checked="" type="checkbox"/> Information Disclosure Statement  <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations (A1-A186; B1-B26; and C1-C107)  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Sequence Listing submission  <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553)  <input type="checkbox"/> Formal Drawing(s) including three sets of color drawings and photographs, and one set of black and white photocopies of the color drawings and photographs  <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal  <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application  <input type="checkbox"/> Small Entity Statement  <input type="checkbox"/> CD(s) for large table or computer program  <input type="checkbox"/> Amendment After Allowance  <input type="checkbox"/> Request for Certificate of Correction  <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences  <input type="checkbox"/> Appeal Brief (in triplicate)  <input type="checkbox"/> Status Inquiry  <input checked="" type="checkbox"/> Return Receipt Postcard  <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8  <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8  <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below)  • Associate Power of Attorney
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<b>CORRESPONDENCE ADDRESS</b>  Direct all correspondence to: Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100	<b>SIGNATURE BLOCK</b>  Respectfully submitted,   Date: <u>May 6, 2003</u> Reg. No. 53,002 Tel. No.: (617) 248-7870 Fax No.: (617) 248-7100 William R. Haulbrook, Ph.D. Attorney for Applicant(s) Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110
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FORM PTO - 1449

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## U.S. PATENT DOCUMENTS

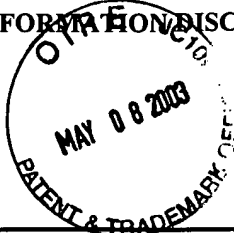
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	2002/0007123 A1	1/17/02	Balas et al	600	476	12/15/00
	A2	3,013,467	12/19/61	Minsky	88	14	
	A3	3,632,865	1/4/72	Haskell et al.	178	6	12/23/69
	A4	3,809,072	5/7/74	Ersek et al.	128	23	10/7/71
	A5	3,890,462	06/17/75	Limb et al	178	6.8	04/17/74
	A6	3,963,019	06/15/75	Quandt et al	128	2	11/25/74
	A7	4,017,192	4/12/77	Rosenthal et al	356	201	2/6/75
	A8	4,071,020	01/31/78	Puglise et al	128	2	06/3/76
	A9	4,198,571	4/15/80	Sheppard	250	571	4/24/78
	A10	4,218,703	8/19/80	Netravali et al	358	136	03/16/79
	A11	4,254,421	3/3/81	Kreutel, Jr.	343	754	12/5/79
	A12	4,273,110	06/16/81	Groux	128	6	07/11/79
	A13	4,357,075	11/2/82	Hunter	350	294	6/26/80
	A14	4,397,557	8/9/83	Herwig et al.	356	342	12/10/80
	A15	4,549,229	10/22/85	Nakano et al	360	8	1/31/83
	A16	4,662,360	5/5/87	O'Hara et al.	128	9	5/8/85
	A17	4,733,063	3/22/88	Kimura et al.	250	201	12/15/86
	A18	4,741,326	5/3/88	Sidall et al.	128	4	10/1/86
	A19	4,753,530	6/28/88	Knight et al.	356	73	8/16/85
	A20	4,768,513	9/6/88	Suzuki	128	634	3/30/87
	A21	4,800,571	01/24/89	Konishi	375	10	01/11/88
	A22	4,844,617	7/4/89	Kelderman et al.	356	372	1/20/88
	A23	4,845,352	7/4/89	Benschop	250	201	12/8/87
	A24	4,852,955	8/1/89	Doyle et al.	350	1.2	9/16/86
	A25	4,877,033	10/31/89	Seitz, jr.	128	660.05	5/4/88

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## U.S. PATENT DOCUMENTS

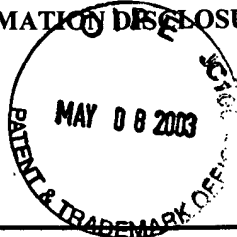
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	A26	4,878,485	11/07/89	Adair	128	6	2/3/89
	A27	4,891,829	1/2/90	Deckman <i>et al.</i>	378	4	11/19/86
	A28	4,930,516	6/5/90	Alfano <i>et al.</i>	128	665	4/25/88
	A29	4,945,478	7/31/90	Merickel <i>et al.</i>	364	413.22	11/6/87
	A30	4,965,441	10/23/90	Picard	250	201.3	2/26/89
	A31	4,972,258	11/20/90	Wolf <i>et al.</i>	358	93	7/31/89
	A32	4,974,580	12/04/90	Anapliotis	128	4	6/23/89
	A33	4,979,498	12/25/90	Oneda <i>et al.</i>	128	6	10/30/89
	A34	4,997,242	3/5/91	Amos	350	6.91	7/11/90
	A35	5,003,979	4/2/91	Merickel <i>et al.</i>	364	413.22	2/21/89
	A36	5,011,243	4/30/91	Doyle <i>et al.</i>	350	1.2	9/16/86
	A37	5,022,757	6/11/91	Modell	356	318	1/23/89
	A38	5,028,802	7/2/91	Webb <i>et al.</i>	250	571	1/11/90
	A39	5,032,720	7/16/91	White	250	236	8/1/90
	A40	5,034,613	7/23/91	Denk <i>et al.</i>	250	458.1	11/14/89
	A41	5,036,853	8/6/91	Jeffcoat <i>et al.</i>	128	634	8/24/89
	A42	5,042,494	8/27/91	Alfano	128	665	12/4/89
	A43	5,048,946	09/17/91	Sklar <i>et al.</i>	351	206	05/15/90
	A44	5,054,926	10/8/91	Dabbs <i>et al.</i>	356	345	3/24/88
	A45	5,065,008	11/12/91	Hakamata <i>et al.</i>	250	216	10/17/90
	A46	5,071,246	12/10/91	Blaha <i>et al.</i>	351	221	10/25/90
	A47	5,074,306	12/24/91	Green <i>et al.</i>	128	664	2/22/90
	A48	5,083,220	1/21/92	Hill	359	234	3/22/90
	A49	5,091,652	2/25/92	Mathies <i>et al.</i>	250	458.1	6/1/90
	A50	5,120,953	6/9/92	Harris	250	227.20	7/13/89
	A51	5,122,653	6/16/92	Ohki	250	216	8/9/90

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A52	5,132,526	7/21/92	Iwasaki	250	201.3	9/9/91
	A53	5,139,025	8/18/92	Lewis et al.	128	665	3/29/89
	A54	5,154,166	10/13/92	Chikama	128	4	1/31/91
	A55	5,159,919	11/03/92	Chikama	128	4	1/31/91
	A56	5,161,053	11/3/92	Dabbs	359	384	8/1/89
	A57	5,162,641	11/10/92	Fountain	250	201.2	2/19/91
	A58	5,162,941	11/10/92	Favro et al.	359	386	7/23/91
	A59	5,168,157	12/1/92	Kimura	250	234	11/20/91
	A60	5,192,980	3/9/93	Dixon et al.	356	326	6/26/91
	A61	Re. 34,214	4/6/93	Carlsson et al.	358	93	12/21/88
	A62	5,201,318	4/13/93	Rava et al.	128	665	10/4/91
	A63	5,201,908	4/13/93	Jones	128	4	6/10/91
	A64	5,203,328	4/20/93	Samuels et al.	128	633	07/17/91
	A65	5,225,671	7/6/93	Fukuyama	250	216	4/3/92
	A66	5,235,457	8/10/93	Lichtman et al.	359	368	11/30/90
	A67	5,237,984	8/24/93	Williams, III et al.	128	4	7/24/91
	A68	5,239,178	8/24/93	Derndinger et al.	250	234	11/8/91
	A69	5,248,876	9/28/93	Kerstens et al.	250	561	4/21/92
	A70	5,253,071	10/12/93	MacKay	358	222	12/20/91
	A71	5,257,617	11/2/93	Takahashi	128	4	12/20/90
	A72	5,260,569	11/9/93	Kimura	250	234	06/29/92
	A73	5,260,578	11/9/93	Bliton et al.	250	461.1	4/30/92
	A74	5,261,410	11/16/93	Alfano et al.	128	664	02/7/91
	A75	5,262,646	11/16/93	Booker et al.	250	341	7/26/91
	A76	5,274,240	12/28/93	Mathies et al.	250	458.1	2/24/92
	A77	5,284,149	2/8/94	Dhadwal et al.	128	665	1/23/92

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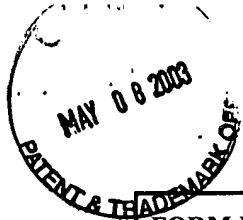
## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A78	5,286,964	2/15/94	Fountain	250	201.2	9/15/92
	A79	5,289,274	2/22/94	Kondo	348	208	1/31/92
	A80	5,294,799	3/15/94	Aslund <i>et al.</i>	250	458.1	2/1/93
	A81	5,296,700	3/22/94	Kumagai	250	216	9/9/92
	A82	5,303,026	4/12/94	Strobl <i>et al.</i>	356	318	2/12/92
	A83	5,306,902	4/26/94	Goodman	250	201.3	9/1/92
	A84	5,313,567	5/17/94	Civanlar <i>et al.</i>	395	124	6/13/91
	A85	5,319,200	6/7/94	Rosenthal <i>et al.</i>	250	341	5/29/92
	A86	5,321,501	6/14/94	Swanson <i>et al.</i>	356	345	4/29/92
	A87	5,324,979	6/28/94	Rosenthal	250	504R	6/28/94
	A88	5,325,846	7/5/94	Szabo	128	4	7/27/92
	A89	5,329,352	7/12/94	Jacobsen	356	301	4/2/92
	A90	5,337,734	8/16/94	Saab	128	4	10/29/92
	A91	5,343,038	8/30/94	Nishiwaki <i>et al.</i>	250	234	12/10/92
	A92	5,345,306	9/6/94	Ichimura <i>et al.</i>	356	346	5/22/91
	A93	5,345,941	09/13/94	Rava <i>et al.</i>	128	665	3/1/93
	A94	5,349,961	09/27/94	Stoddart <i>et al.</i>	128	665	09/27/94
	A95	5,398,685	3/21/95	Wilk <i>et al.</i>	128	653.1	6/26/92
	A96	5,402,768	4/4/95	Adair	128	4	6/22/93
	A97	5,406,939	4/18/95	Bala	128	4	2/14/94
	A98	5,413,092	5/9/95	Williams, III <i>et al.</i>	128	4	7/29/93
	A99	5,413,108	5/9/95	Alfano	128	665	4/21/93
	A100	5,415,157	5/16/95	Welcome	128	4	2/5/93
	A101	5,418,797	5/23/95	Bashkansky <i>et al.</i>	372	3	1/15/93
	A102	5,419,311	5/30/95	Yabe <i>et al.</i>	128	4	3/9/93
	A103	5,419,323	5/30/95	Kittrell <i>et al.</i>	128	653	11/17/89

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A104	5,421,337	6/6/95	Richards-Kortum <i>et al.</i>	128	665	3/29/94
	A105	5,421,339	6/6/95	Ramanujam <i>et al.</i>	128	665	5/12/93
	A106	5,424,543	06/13/95	Dombrowski <i>et al.</i>	250	330	04/19/93
	A107	5,450,857	09/19/95	Garfield <i>et al.</i>	128	778	05/19/94
	A108	5,451,931	9/19/95	Miller <i>et al.</i>	340	630	9/14/93
	A109	5,458,132	10/17/95	Yabe <i>et al.</i>	128	4	4/27/93
	A110	5,458,133	10/17/95	Yabe <i>et al.</i>	600	121	10/17/95
	A111	5,467,767	11/21/95	Alfano <i>et al.</i>	128	665	08/27/93
	A112	5,477,382	12/19/95	Pernick	359	559	8/5/94
	A113	5,480,775	1/2/96	Ito <i>et al.</i>	435	7.2	5/3/93
	A114	5,493,444	2/20/96	Khoury <i>et al.</i>	359	559	4/28/94
	A115	5,507,295	4/16/96	Skidmore	600	121	4/16/96
	A116	5,516,010	5/14/96	O'Hara <i>et al.</i>	600	122	9/1/94
	A117	5,519,545	5/21/96	Kawahara	360	46	11/29/94
	A118	5,529,235	6/25/96	Bolarski <i>et al.</i>	227	175.1	4/28/94
	A119	5,536,236	7/16/96	Yabe <i>et al.</i>	600	125	3/26/93
	A120	5,545,121	8/13/96	Yabe <i>et al.</i>	600	121	3/4/93
	A121	5,551,945	9/3/96	Yabe <i>et al.</i>	600	122	4/28/93
	A122	5,556,367	9/17/96	Yabe <i>et al.</i>	600	124	3/29/93
	A123	5,562,100	10/8/96	Kittrell <i>et al.</i>	128	665	05/25/94
	A124	5,579,773	12/3/96	Vo-Dinh <i>et al.</i>	128	665	09/30/94
	A125	5,582,168	12/10/96	Samuels <i>et al.</i>	128	633	01/22/93
	A126	5,587,832	12/24/96	Krause	359	385	10/20/93
	A127	5,596,992	1/28/97	Haaland <i>et al.</i>	128	664	6/30/93
	A128	5,599,717	2/4/97	Vo-Dinh	436	63	9/2/94
	A129	5,609,560	3/11/97	Ichikawa <i>et al.</i>	600	101	4/10/95

EXAMINER

DATE CONSIDERED



FORM PTO - 1449

## INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-030

APPLICANTS: Kaufman *et al.*

SERIAL NO.: 10/099,881

FILING DATE: March 15, 2002

GROUP: 3737

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TECHNOLOGY CENTER R3700

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	A130	5,612,540	3/18/97	Richards-Korum <i>et al.</i>	250	461.2	3/31/95
	A131	5,623,932	4/29/97	Ramanujam <i>et al.</i>	128	665	6/6/95
	A132	5,647,368	7/15/97	Zeng <i>et al.</i>	128	665	02/28/96
	A133	5,662,588	9/2/97	Lida	600	121	4/25/95
	A134	5,685,822	11/11/97	Harhen	600	125	8/8/96
	A135	5,693,043	12/2/97	Kittrell <i>et al.</i>	606	15	4/3/90
	A136	5,695,448	12/9/97	Kimura <i>et al.</i>	600	121	8/25/95
	A137	5,697,373	12/16/97	Richards-Kortum <i>et al.</i>	128	664	03/14/95
	A138	5,699,795	12/23/97	Richards-Kortum	128	634	12/23/97
	A139	5,704,892	1/6/98	Adair	600	121	3/15/96
	A140	5,707,343	1/13/98	O'Hara <i>et al.</i>	600	121	2/28/96
	A141	5,713,364	2/3/98	DeBaryshe <i>et al.</i>	128	664	8/1/95
	A142	5,717,209	2/10/98	Bigman <i>et al.</i>	250	339.12	4/29/96
	A143	5,730,701	3/24/98	Furukawa <i>et al.</i>	600	127	2/14/96
	A144	5,733,244	3/31/98	Yasui <i>et al.</i>	600	127	3/6/96
	A145	5,735,276	04/7/98	Lemelson <i>et al.</i>	128	653	03/21/95
	A146	5,746,695	5/5/98	Yasui <i>et al.</i>	600	127	9/12/96
	A147	5,768,333	6/16/98	Abdel-Mottaleb	378	37	12/2/96
	A148	5,769,792	6/23/98	Palcic <i>et al.</i>	600	477	4/15/96
	A149	5,773,835	6/30/98	Sinofsky <i>et al.</i>	250	462.1	06/7/96
	A150	5,791,346	08/11/98	Craine <i>et al.</i>	128	653	8/22/96
	A151	5,795,632	8/18/98	Buchalter	428	35.2	2/6/96
	A152	5,800,350	9/1/98	Coppleson <i>et al.</i>	600	372	2/14/97
	A153	5,807,248	9/15/98	Mills	600	322	5/15/96
	A154	5,813,987	9/29/98	Modell <i>et al.</i>	600	473	12/24/96
	A155	5,817,015	10/6/98	Adair	600	121	8/12/97

EXAMINER

DATE CONSIDERED



FORM PTO - 1449

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TECHNOLOGY CENTER R3700

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	A156	5,833,617	11/10/98	Hayashi	600	476	3/6/97
	A157	5,840,035	11/24/98	Heusmann <i>et al.</i>	600	47	2/1/96
	A158	5,842,995	12/1/98	Mahadevan-Jansen <i>et al.</i>	600	473	6/28/96
	A159	5,855,551	1/5/99	Sklandnev <i>et al.</i>	600	372	3/17/97
	A160	5,860,913	1/19/99	Yamaya <i>et al.</i>	600	127	4/29/97
	A161	5,865,726	2/2/99	Katsurada <i>et al.</i>	600	127	3/26/97
	A162	5,876,329	3/2/99	Harhen	600	125	9/3/97
	A163	5,920,399	7/6/99	Sandison <i>et al.</i>	356	418	3/18/97
	A164	5,921,926	07/13/99	Rolland <i>et al.</i>	600	407	12/31/97
	A165	5,929,985	07/27/99	Sandison <i>et al.</i>	365	318	3/18/97
	A166	5,931,779	08/03/99	Arakaki <i>et al.</i>	600	310	6/6/97
	A167	5,938,617	08/17/99	Vo-Dinh	600	476	12/3/96
	A168	5,989,184	11/23/99	Blair <i>et al.</i>	600	167	12/5/97
	A169	5,991,653	11/23/99	Richards-Kortum <i>et al.</i>	660	475	6/19/96
	A170	6,069,689	05/30/00	Zeng <i>et al.</i>	356	773	4/14/98
	A171	6,091,985	7/18/00	Alfano <i>et al.</i>	600	476	1/23/98
	A172	6,095,982	8/1/00	Richards-Kortum <i>et al.</i>	600	476	12/11/97
	A173	6,104,945	8/15/00	Modell <i>et al.</i>	600	473	1/13/97
	A174	6,119,031	9/12/00	Crowley	600	407	9/12/00
	A175	6,146,897	11/14/00	Cohenford <i>et al.</i>	436	63	11/14/00
	A176	6,169,817 B1	1/2/01	Parker <i>et al.</i>	382	131	11/4/98
	A177	6,208,887 B1	03/27/01	Clarke <i>et al.</i>	600	476	6/24/99
	A178	6,241,662 B1	06/5/01	Richards-Kortum <i>et al.</i>	600	310	10/20/98
	A179	6,246,479 B1	06/12/01	Jung <i>et al.</i>	356	419	12/23/99
	A180	6,285,639 B1	9/4/01	Maenza <i>et al.</i>	369	47.28	4/29/98
	A181	6,377,842 B1	4/23/02	Pogue <i>et al.</i>	600	478	8/23/99

EXAMINER

DATE CONSIDERED



FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

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GROUP: 3737

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MAY 09 2003

TECHNOLOGY CENTER R3700

	A182	6,385,484 B2	5/7/02	Nordstrom et al.	600	476	12/15/00
	A183	6,411,835 B1	6/25/02	Modell et al.	600	407	2/2/99
	A184	6,411,838 B1	6/25/02	Nordstrom et al.	600	476	12/22/99
	A185	6,421,553 B1	7/16/02	Costa et al.	600	476	12/15/00
	A186	6,427,082 B1	7/30/02	Nordstrom et al.	600	476	12/23/99

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EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	0 135 134	3/27/85	EP					Y
	B2	0 280 418	8/31/88	EP					Y
	B3	0 335 725	10/4/89	EP					Y
	B4	0 444 689 A2	9/4/91	EP					Y
	B5	0 474 264	3/11/92	EP					Y
	B6	0 641 542	3/8/95	EP					Y
	B7	0 689 045 A1	12/27/95	EP					Y
	B8	0 737 849 A2	10/16/96	EP					Y
	B9	1 223 092 A	4/7/86	SU				In English	N
	B10	WO 92/19148	11/12/92	PCT			4/29/92		Y
	B11	WO 93/14688	8/5/93	PCT			01/24/92		Y
	B12	WO 94/26168	11/24/94	PCT			05/11/94		Y
	B13	WO 95/04385	2/9/95	PCT			07/19/94		
	B14	WO 97/05473	2/13/97	PCT			08/01/95		Y
	B15	WO 97/48331	12/24/97	PCT			6/19/97		
	B16	WO 98/05253	02/12/98	PCT			08/2/96		
	B17	WO 98/24369	06/11/98	PCT			11/20/97	N	Y
	B18	WO 98/30889	2/13/97	PCT			01/13/97		Y
	B19	WO 98/41176	9/24/98	PCT			03/17/97		
	B20	WO 99/18847	4/22/99	PCT			12/14/98		Y

EXAMINER

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FORM PTO - 1449

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GROUP: 3737

RECEIVED

MAY 09 2003

TECHNOLOGY CENTER R3700

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	B22	WO 99/20314	4/29/99	PCT			10/20/98		
	B23	WO 99/47041	09/23/99	PCT			03/19/99		
	B24	WO 99/57507	11/11/99	PCT			4/30/99		
	B25	WO 99/57529	11/11/99	PCT			5/4/99		
	B26	WO 00/15101	3/23/00	PCT			9/10/99		

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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C1	Agrawal et al. (1999), "Fluorescence Spectroscopy of the Cervix: Influence of Acetic Acid, Cervical Mucus, and Vaginal Medications," <u>Lasers in Surgery and Medicine</u> , 25:237-249.							
	C2	Althof et al. (1997), "A rapid and automatic image registration algorithm with subpixel accuracy," <u>IEEE Transactions on Medical Imaging</u> , 16(3):308-316.							
	C3	Anderson (1994), "Confocal Laser Microscopes See A Wider Field of Application", <u>Laser Focus World</u> , pp. 83-86.							
	C4	Aström et al. (1999), "Motion estimation in image sequences using the deformation of apparent contours," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 21(2):114-127.							
	C5	Balakrishnama et al, "Linear Discriminant Analysis - A Brief Tutorial," <u>Institute for Signal and Information Processing Department of Electrical and Computer Engineering</u> , 8 pages.							
	C6	Balas (1997), "An Imaging Colorimeter for Noncontact Tissue Color Mapping," <u>IEEE Transactions on Biomedical Engineering</u> , 44(6):468-474.							
	C7	Balas (2001), "A Novel Optical Imaging Method for the Early Detection, Quantitative Grading, and Mapping of Cancerous and Precancerous Lesions of Cervix," <u>IEEE Transactions on Biomedical Engineering</u> , 48(1):96-104.							
	C8	Balas et al. (1997), "A modular diffuse reflection and fluorescence emission imaging colorimeter for the in-vivo study of parameters related with the phototoxic effect in PDT," <u>SPIE</u> , 3191:50-57.							
	C9	Balas et al. (1998), "In Vivo Assessment of Acetic Acid-Cervical Tissue Interaction Using Quantitative Imaging of Back-Scattered Light: Its Potential Use for the In Vivo Cervical Cancer Detection Grading and Mapping," Part of EUROPTO Conference on Optical Biopsy, Stockholm, Sweden, <u>SPIE</u> , Vol. 3568:31-37.							
	C10	Balas et al. (1999), "In Vivo Detection and Staging of Epithelial Dysplasias and Malignancies Based on the Quantitative Assessment of Acetic Acid-Tissue Interaction Kinetics," <u>Journal of Photochemistry and Photobiology B: Biology</u> , 53:153-157.							
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EXAMINER

DATE CONSIDERED



FORM PTO - 1449	ATTORNEY DOCKET NO.: MDS-030
INFORMATION DISCLOSURE STATEMENT	APPLICANTS: Kaufman <i>et al.</i>
	SERIAL NO.: 10/099,881
	FILING DATE: March 15, 2002
	GROUP: 3737

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	C12 Bors et al. (1998), "Optical flow estimation and moving object segmentation based on median radial basis function network," <u>IEEE Transactions on Image Processing</u> , 7(5):693-702.
	C13 Bouthemy et al. (1999), "A unified approach to shot change detection and camera motion characterization," <u>IEEE Transactions on Circuits and Systems for Video Technology</u> , 9(7):1030-1044.
	C14 Braichotte et al. (1995), "Clinical Pharmacokinetic Studies of Photofrin by Fluorescence Spectroscopy in the Oral Cavity, the Esophagus, and the Bronchi," <u>Cancer</u> 75(11):2760-2778.
	C15 Brown (1990), "Chemometrics," <u>Anal. Chem.</u> , 62:84R-101R.
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	C17 Caplier et al. (1998), "Real-time implementation of a MRF-based motion detection algorithm," <u>Real-Time Imaging</u> , 4:41-54.
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	C22 Cronjé et al. (1997), "Effects of Dilute Acetic Acid on the Cervical Smear," <u>Acta. Cytol.</u> , 41:1091-1094.
	C23 Davidovits et al. (1971), "Scanning Laser Microscope for Biological Investigations," <u>Applied Optics</u> , 10(7):1615-1619.
	C24 Dickman et al. (2001), "Identification of Cervical Neoplasia Using a Simulation of Human Vision," <u>Journal of Lower Genital Tract Disease</u> , 5(3):144-152.
	C25 Drezek et al. (1999), "Light scattering from cells: finite-difference time-domain simulations and goniometric measurements," <u>Applied Optics</u> 38(16):3651-3661.
	C26 Drezek et al. (2000), "Laser Scanning Confocal Microscopy of Cervical Tissue Before and After Application of Acetic Acid," <u>Am. J. Obstet. Gynecol.</u> , 182(5):1135-1139.
	C27 Dumontier et al. (1999), "Real-time DSP implementation for MRF-based video motion detection," <u>IEEE Transactions on Image Processing</u> , 8(10):1341-1347.
	C28 Earnshaw et al. (1996), "The Performance of Camera Translation Direction Estimators from Optical Flow: Analysis, Comparison, and Theoretical Limits," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 18(9):927-932.
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FORM PTO - 1449

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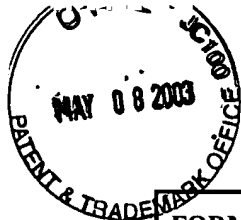
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	C32	Fleet et al. (1995), "Recursive Filters for Optical Flow," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 17(1):61-67.
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	C35	Hall et al. (1992), "Near-Infrared Spectrophotometry: A New Dimension in Clinical Chemistry", <u>Clin. Chem.</u> 38(9):1623-1631.
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	C39	Horn et al. (1981), "Determining Optical Flow," <u>Artificial Intelligence</u> , 17(1-3):185-203.
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	C41	Huang et al. (1979), "A fast two-dimensional median filtering algorithm," <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , 27(1):13-18.
	C42	Jackway (1996), "Gradient Watersheds in Morphological Scale-Space," <u>IEEE Transactions on Image Processing</u> , 5(6):913-921.
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FORM PTO - 1449

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C48	Linde et al. (1980), "An algorithm for vector quantizer design,," <u>IEEE Transactions on Communications</u> , 28(1):84-95.
C49	MacAulay et al. (2002), "Variation of fluorescence spectroscopy during the menstrual cycle," <u>Optics Express</u> , 10(12):493-504.
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C51	Marzetta et al. (1999), "A surprising radon transform result and its application to motion detection," <u>IEEE Transactions on Image Processing</u> , 8(8):1039-1049.
C52	Miike et al. (1999), "Motion enhancement for preprocessing of optical flow and scientific visualization," <u>Pattern Recognition Letters</u> , 20:451-461.
C53	Mikhail et al. (1995), "Computerized colposcopy and conservative management of cervical intraepithelial neoplasia in pregnancy," <u>Acta Obstet. Gynecol. Scand.</u> , 74:376-378.
C54	Milanfar (1999), "Two-dimensional matched filtering for motion estimation," <u>IEEE Transactions on Image Processing</u> , 8(3):438-444.
C55	Mitchell et al. (1998), "Colposcopy for the diagnosis of squamous intraepithelial lesions: a meta-analysis," <u>Obstet. Gynecol.</u> , 91(4):626-631.
C56	Mycek et al. (1998), "Colonic polyp differentiation using time-resolved autofluorescence spectroscopy," <u>Gastrointestinal Endoscopy</u> , 48(4):390-394.
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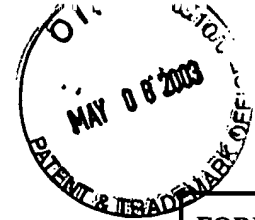
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FORM PTO - 1449

## INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-030

APPLICANTS: Kaufman *et al.*

SERIAL NO.: 10/099,881

FILING DATE: March 15, 2002

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